

Amendments to the Claims:

The following Listing of the Claims will replace all prior versions and all prior listings of the claims in the present application:

Listing of The Claims:

1. (Previously presented) A method for identifying a potential modulator of ribosomal protein L11/GAR activity, comprising the steps of:
 - a) providing the atomic co-ordinates of the L11 GTPase Activating Region (L11/GAR) in Table II, thereby defining a three-dimensional structure of the L11/GAR;
 - b) using said three dimensional structure of the L11/GAR to design or select a potential modulator by computer modeling;
 - c) providing said potential modulator; and
 - d) physically contacting said potential modulator with L11/GAR to determine the ability of said potential modulator to modulate L11/GAR activity, wherein a modulator of L11/GAR activity is identified.
2. (Original) The method according to claim 1, wherein said potential modulator is designed de novo.
3. (Original) The method according to claim 1, wherein said potential modulator is designed from a known modulator.
4. (Previously presented) The method according to claim 1, wherein said step of employing said three-dimensional structure to design or select said potential modulator comprises the steps of:
 - a) identifying chemical entities or fragments with the potential to bind said L11/GAR;and
 - b) assembling the identified chemical entities or fragments into a single molecule to provide the structure of said potential modulator.

5. (Original) The method according to claim 4, wherein said potential modulator is designed de novo.
6. (Original) The method according to claim 4, wherein said potential modulator is designed from a known modulator.
7. (Canceled) A method for screening L11/GAR-binding compounds comprising the steps of:
 - a. incubating in vitro one or more compounds, a known L11/GAR binding activity and labeled RNA comprising GAR RNA;
 - b. separating that fraction of said labeled RNA bound to said known L11/GAR binding activity from that fraction of said labeled RNA not bound to said known L11/GAR binding activity; and
 - c. detecting labeled RNA, wherein a decrease in the level of said labeled RNA bound to said known L11/GAR binding activity in the presence of said one or more compounds indicates the binding of said one or more compounds to L11/GAR.
8. (Canceled) A method for screening L11/GAR-binding compounds comprising the steps of:
 - a. incubating in vitro one or more compounds, a labeled known L11/GAR binding activity that binds to a site identified by the three dimensional structure of L11/GAR and an RNA comprising GAR RNA;
 - b. separating that fraction of said labeled known L11/GAR binding activity bound to said RNA from that fraction of said labeled known L11/GAR binding activity not bound to said RNA; and
 - c. detecting labeled known L11/GAR binding activity wherein a decrease in the level of said labeled known L11/GAR binding activity bound to said RNA in the presence of said one or more compounds indicates that said one or more compounds binds L11/GAR.

9. (Canceled) The method of either one of claims 7 or 8 wherein said known L11/GAR binding activity is an antibiotic.
10. (Canceled) The method of claim 9 wherein said antibiotic is thiostrepton.
11. (Canceled) The method of claim 10 wherein said antibiotic is micrococcin.
12. (Canceled) The method of claim 8 wherein said RNA comprising GAR RNA is contained within a ribosome.
13. (Canceled) A method for screening L11/GAR-binding compounds comprising the steps of:
 - a. incubating in vitro one or more compounds designed or selected by using a three-dimensional structure of the L11/GAR complex with a translationally competent cell extract and a translatable RNA;
 - b. detecting translation, wherein a decrease in the level of translation indicates binding of said one or more compounds to L11/GAR.
14. (Canceled) A method for screening L11/GAR-binding compounds comprising the steps of:
 - a. incubating in vitro one or more compounds with a translationally competent cell extract and a translatable RNA;
 - b. detecting translation, wherein a decrease in the level of translation indicates binding of said one or more compounds to L11/GAR.
15. (Canceled) The method of claim 14 wherein said translatable RNA encodes an enzyme and wherein said step of detecting translation comprises detecting the activity of said enzyme.
16. (Canceled) The method of claim 15 wherein said enzyme is luciferase.

17. (Canceled) The method of claim 14 wherein said translatable RNA is poly-U, and said step of detecting translation detects the incorporation of labeled phenylalanine into polyphenylalanine.
18. (Canceled) A method for screening L11/GAR-binding compounds comprising the steps of:
- a. incubating in vitro one or more compounds designed or selected by using a three-dimensional structure of the L11/GAR complex, isolated 70S ribosomes, isolated EF-G and gamma-labeled GTP;
 - b. detecting GTP hydrolysis wherein a decrease in GTP hydrolysis indicates said one or more compounds binds L11/GAR.
19. (Canceled) A method for screening L11/GAR-binding compounds comprising the steps of:
- a. incubating in vitro one or more compounds, isolated 70S ribosomes, isolated EF-G and gamma-labeled GTP;
 - b. detecting GTP hydrolysis wherein a decrease in GTP hydrolysis indicates said one or more compounds binds L11/GAR.
20. (Canceled) A method for screening anti-bacterial compounds comprising the steps of:
- a. incubating in vitro one or more compounds, a known L11/GAR binding activity and labeled RNA comprising GAR RNA;
 - b. separating that fraction of said labeled RNA bound to said known L11/GAR binding activity from that fraction of said labeled RNA not bound to said known L11/GAR binding activity; and
 - c. detecting labeled RNA, wherein a decrease in the level of said labeled RNA bound to said known L11/GAR binding activity in the presence of said one or more compounds indicates that one or more of said compounds has anti-bacterial properties.

21. (Canceled) A method for screening anti-bacterial compounds comprising the steps of:
 - a. incubating in vitro one or more compounds, a labeled known L11/GAR binding activity and an RNA comprising GAR RNA;
 - b. separating that fraction of said labeled known L11/GAR binding activity bound to said RNA from that fraction of said labeled known L11/GAR binding activity not bound to said RNA; and
 - c. detecting labeled known L11/GAR binding activity wherein a decrease in the level of said labeled known L11/GAR binding activity bound to said RNA in the presence of said one or more compounds indicates that said one or more compounds has anti-bacterial properties.
22. (Canceled) The method of either one of claims 20 or 21 wherein said known L11/GAR binding activity is an antibiotic.
23. (Canceled) The method of claim 22 wherein said antibiotic is thiostrepton.
24. (Canceled) The method of claim 22 wherein said antibiotic is micrococccin.
25. (Canceled) The method of claim 21 wherein said RNA comprising GAR RNA is contained within a ribosome.
26. (Canceled) A method for screening anti-bacterial compounds comprising the steps of:
 - a. incubating in vitro one or more compounds designed or selected by using a three-dimensional structure of the L11/GAR complex with a translationally competent cell extract and a translatable RNA;
 - b. detecting translation, wherein a decrease in the level of translation indicates said one or more compounds has anti-bacterial properties.
27. (Canceled) A method for screening anti-bacterial compounds comprising the steps of:

- a. incubating in vitro one or more compounds with a translationally competent cell extract and a translatable RNA;
 - b. detecting translation, wherein a decrease in the level of translation indicates said one or more compounds has anti-bacterial properties.
28. (Canceled) The method of claim 27 wherein said translatable RNA encodes an enzyme and wherein said step of detecting translation comprises detecting the activity of said enzyme.
29. (Canceled) The method of claim 28 wherein said enzyme is luciferase.
30. (Canceled) The method of claim 27 wherein said translatable RNA is poly-U, and said step of detecting translation detects the incorporation of labeled phenylalanine into polyphenylalanine.
31. (Canceled) A method for screening anti-bacterial compounds comprising the steps of:
- a. incubating in vitro one or more compounds designed or selected by using a three-dimensional structure of the L11/GAR, isolated bacterial ribosomes, isolated EF-G and gamma-labeled GTP;
 - b. detecting GTP hydrolysis wherein a decrease in GTP hydrolysis indicates said one or more compounds has anti-bacterial properties.
32. (Canceled) A method for screening anti-bacterial compounds comprising the steps of:
- a. incubating in vitro one or more compounds, isolated bacterial ribosomes, isolated EF-G and gamma-labeled GTP;
 - b. detecting GTP hydrolysis wherein a decrease in GTP hydrolysis indicates said one or more compounds has anti-bacterial properties.